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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,696	10/31/2001	Steve Varga	4673-013B	3045
27820	7590	12/15/2004		
WITHROW & TERRANOVA, P.L.L.C. P.O. BOX 1287 CARY, NC 27512			EXAMINER VOELTZ, EMANUEL T	
			ART UNIT 2121	PAPER NUMBER 12
DATE MAILED: 12/15/2004				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 586 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 586 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail**

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

27820 7590 12/15/2004

**WITHROW & TERRANOVA, P.L.L.C.
P.O. BOX 1287
CARY, NC 27512**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,696	10/31/2001	Steve Varga	4673-013B	3045

TITLE OF INVENTION: APPARATUS AND METHOD FOR IMPROVED VENDING MACHINE INVENTORY MAINTENANCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	03/15/2005

EXAMINER	ART UNIT	CLASS-SUBCLASS
VOELTZ, EMANUEL T	2121	700-017000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

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- ☐ A check in the amount of the fee(s) is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

27820 7590 12/15/2004

WITHROW & TERRANOVA, P.L.L.C.
P.O. BOX 1287
CARY, NC 27512

EXAMINER

VOELTZ, EMANUEL T

ART UNIT

PAPER NUMBER

2121

DATE MAILED: 12/15/2004

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APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	03/15/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Notice of Allowability

Application No.

10/001,696

Examiner

Emanuel T. Voeltz

Applicant(s)

VARGA ET AL.

Art Unit

2121

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to facsimile amendment dated April 28, 2004.
2. ☒ The allowed claim(s) is/are 1-130.
3. ☒ The drawings filed on 10/31/2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



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Examiner's Detailed Office Action

This action is in response to an amendment filed on April 28, 2004.

Claims 1-130 have been examined.

Terminal Disclaimer

The terminal disclaimer filed on April 28, 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent 6,181,981, granted to Varga et al., has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

Claims 1-130 are allowable over the prior art of record.

Correspondence Information

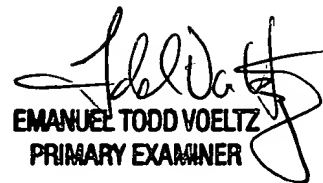
Any inquiries concerning this communication or earlier communications from the examiner should be directed to **Emanuel Todd Voeltz** who may be reached via telephone at (571) 272-3692. The examiner can normally be reached Monday through Friday between the hours of 8:00 a.m. and 4:00 p.m. eastern standard time.

If you need to send an Official OR Non-Official (draft) facsimile transmission, please send it to (571) 273-3692. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's Supervisor, **Anthony Knight**, may be reached at (571) 272-3687.

Art Unit: 2121

Any response to this office action should be mailed too: **Director of Patents and
Trademarks Washington, D.C. 20231.**

Emanuel Todd Voeltz
Primary Patent Examiner
Art Unit 2121
United States Department of Commerce
Patent & Trademark Office


EMANUEL TODD VOELTZ
PRIMARY EXAMINER

memory 33 C etc.") according to the control of the system controller.

Regarding claims 26, 30 and 42, video D/A for video(col. 7, lines 10-35, D/A conversion to analog signals, thru a port/interface, which seems to be 22 C) and a display(col. 7, line 34, "audio/video monitors").

Regarding claim 48-49, Kaloi further meets the limitation associated with the method and apparatus for reproducing, wherein the data storage unit(15 C etc.) is included in a recording unit (Fig. 3, "SSRPD").

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaloi et al.(5,511,000).

Regarding claim 3, Kaloi meets the limitation associated with the reproduction unit, which additionally comprises a display(Fig. 1, "computer display"), for displaying video from for the separable PSD memory unit 2 A, but, fails to disclose wherein the reproduction unit further includes a D/A converter.

The examiner takes official notice that D/A converters for video etc., are well known and further obvious to provide for converting signals to analog display devices, as is well known.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kaloi by incorporating into the reproduction unit a D/A converter in order to be capable of driving and to utilize an analog display device to display video, considered to be an obvious design consideration to be capable of handling different type display devices such as analog as well as digital type display devices.

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaloi et al. (5,511,000) in view of Stockum et al. (5,301,240).

Claims 5 are analyzed and discussed with respect to the claims above, but claim 5 recited additional elements such as: wherein the separable storage unit includes:

- o an array(33 C) and interface(27 C) for the removable memory card which is met by Kaloi, "solid state RAM/DRAM, EEPROM etc.", but, Kaloi, fails to disclose wherein the separable storage unit includes: an address generator and controller for generating addresses for specifying regions of the memory array.

Stockum, teaches the utilization of a memory card in Fig. 9, which includes an address generator(904), an interface(900) for the memory array(902) and a controller(CPU 910), used for video

capture, the card is either a separate circuit board or card, which plugs into a backplane of a card cage 221 (col. 5, lines 9-60), which the interface associated with the memory card (Fig. 1, "RS 232, 9600 Bps") for connecting to an external computer system 131, which allows for transferring and displaying received/captured images from the card to the computer, as taught by Stockum.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kaloi by incorporating a memory card, including an address generator, controller, interface which allows for interfacing with a computer, as taught by Stockum.

6. Claims 6, 10, 20, 28, 39 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaloi et al. (5,511,000), as applied to the claims 1, 3 etc., above, further in view of Young et al. (US 5,479,266).

Regarding claims 6, 20, 28, 39 and 44, Kaloi as analyzed and discussed above meets all the limitations as claimed and further provide means for selectively reproducing information from the media using direct addresses associated with the memory and further can provide a display of memory contents (interpreted, as some sort of HEX address locations of the memory to be entered directly, data, no data), using identified start and end

addresses associated with the Display Memory Contents(Fig. 14-4) and further suggests additional filing capabilities and additional functionality through-out the disclosure(col. 6, lines 22-31), but, the claims recite reading and displaying, "a content table"(or Table of Content or "TOC") for the data stored(audio and/or video) in the storage unit when the keyed input is determined, as a search signal, which Kaloi fails to particularly and clearly disclose this limitation or feature.

Young et al. teaches providing a TOC associated with a recording media, wherein the TOC is generated on command(col. 8, line 22 to col. 9, line 43), wherein the content table is searched for upon request and provided to the user, wherein the TOC provides convenience to a user by, "eliminating the user from muddling through stretches of recordings trying to find what on the media", "prior art, with no TOC", therefore, providing a means to locate and playback recorded segments using the TOC provided, as taught by Young.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to modify Kaloi by incorporating a table of contents to locate and selectively reproduce recorded material, as taught by Young.

Regarding claim 10, Kaloi, discloses meets the limitations associated with the recited reproduction steps of accessing, the

stored data in the separable storage unit, decoding (decompression) and D/A converting(33 C, as discussed above).

Response to Arguments

7. Applicant's arguments filed 10/29/01, have been fully considered but they are not persuasive.

Amendment B claims 7-8, 13 has not been entered, due to the cancellation of these claims in amendment A.

{A} In re page 18-, applicant states, "As agreed upon by the Examiner during an interview on 10/18/01", in summary, "Kaloi does not teach or suggest the separation of the reproducing unit, from a data recording unit, as in applicant's claimed invention.

Particularly, Kaloi teaches record/play back device SSRPD containing module 18 C is entirely disposed in a single, non-detachable device as shown in Fig. 3 and 5. Therefore, Kaloi does not teach or suggest a data reproduction unit being detachable from a data recording unit or vice versa...".

In response the examiner never agreed that there existed no detachable memory unit, on the contrary the examiner clearly indicated in Fig. 3, element designated by 33 C, wherein the recited memory element 18 C is for audio and video internal to the SSRPD among other memory elements.

Furthermore, after a careful consideration the claims fails to claim wherein the recording when detached from the reproduction unit, can't reproduce

and

also when the reproduction unit is detached from the recording unit, it can't record.

Furthermore, after a careful consideration and analysis by the examiner,

Kaloi meets the limitations such as

* a recording unit(SSRPD in Fig. 3), including at least one data storage unit(13 C etc...), wherein the detachable memory is different from the storage unit which is met by the PSD element in Fig. 3 designated as 33 C and is detachable and portable, as disclosed

wherein the reproduction unit with respect to Fig. 1 is relied upon by the reproduction unit, as shown 3 A with 4 A elements, which also can be connected to the SSRPD and PSD or disconnected, which all elements can be portable by battery power as disclosed.

Furthermore, the consideration of multiple SSRPDs connected together in shown in Fig. 2 with the detachable memory PSD, as applied to claim 14 and all other claims, as a secondary consideration/rejection, needs to be addressed and the claims amended to overcome this rejection set fourth, as set fourth by the examiner.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Fax Information

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for formal communication intended for entry)


or:

(703) 308-5359, (for informal or draft communications, please label "PROPOSED" or "DRAFT")
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Contact Information

9. Any inquiry concerning this communication or earlier communications should be directed to the examiner of record, Vincent F. Boccio (703) 306-3022.
If any attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor, Andy Christensen (703) 308-9644.
Any inquiry of a general nature or relating to the status of this application should be directed to Customer Service (703) 306-0377.

Primary Examiner, Boccio, Vin
March 23, 2002


VINCENT BOCCIO
PRIMARY EXAMINER